

ABSTRACT

DETERMINATION OF TOTAL Phenol CONTENT OF RED BETEL LEAF (*Piper crocatum* Ruiz & Pav) ETHANOL EXTRACT USING UV-VIS SPECTROPHOTOMETRY METHOD

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Red betel (*Piper crocatum* Ruiz & Pav) is a plant that grows in Indonesia, especially on the island of Java. red siirh itself has benefits for body health such as diabetes mellitus and hepatitis and contains ingredients such as flavonoids, tannins, essential oils, and polyphenols. In this study red betel was used as a sample, and maceration was carried out. after getting the results of maceration and then concentrating it with a rotary evaporator, a thick extract of red betel was obtained. Standard solution of 200 ppm gallic acid was made to determine the operating time obtained at 60 minutes and a wavelength of 751.0 nm. then a standard solution was made with a concentration range of 100,125,150,175,200 ppm and produced a linear line equation $y = 0,0028x + 0.1902$ with a correlation coefficient (r) 0.9841. The total phenol determination was replicated 3 times and the absorbance value was observed. The results showed that the average total phenolic content was 31.6343 mg GAE/g extract.

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